

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
8 July 2004 (08.07.2004)

PCT

(10) International Publication Number
WO 2004/057579 A2

(51) International Patent Classification⁷: G11B 21901 (US). MORTENSON, Mark, G. [US/US]; 105 Deer Path Lane, North East, MD 21901 (US).

(21) International Application Number: PCT/US2003/037253 (74) Common Representative: MORTENSON, Mark, G.; Post Office Box 310, North East, MD 21901-0310 (US).

(22) International Filing Date: 20 November 2003 (20.11.2003) (81) Designated States (national): AE, AG, AL, AU, BB, BG, BR, CA, CN, CO, CR, CU, CZ, DM, DZ, EC, EE, GD, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LS, LT, MA, MG, MK, MX, NZ, PL, RO, SG, SK, TR, TT, UA, UG, US, UZ, VC, YU, ZA.

(25) Filing Language: English (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

(30) Priority Data: 60/428,149 21 November 2002 (21.11.2002) US

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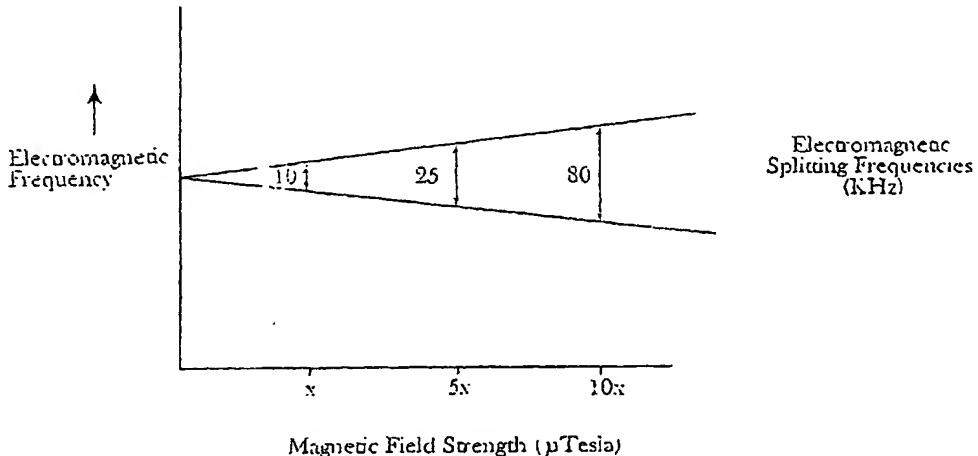
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Published:

— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: ENHANCED DATA STORAGE AND RETRIEVAL DEVICES AND SYSTEMS AND METHODS FOR UTILIZING SAME



WO 2004/057579 A2

(57) Abstract: The present invention relates generally to the storage and/or retrieval of information on magnetic storage media by using one or more novel approaches alone or in combination. These novel approaches are capable of using at least one code which may comprise more than two values (i.e., more than a "0" and a "1"). A series of approaches applies generally to existing electric and/or magnetic storage/retrieval systems (e.g., magnetic, magneto-optic, etc.) as well as other novel electrical/magnetic systems. Each series of approaches is capable of storing information in one or more codes, wherein such approaches permit, if desired, the use of at least one higher order code which is different from the traditional binary code of "0's" and "1's" currently utilized for the storage of digital information. Said at least one higher order code may comprise three or more optical and/or magnetic values or bits that are used to represent, for example, ASCII or Unicode characters that are currently represented predominately by the traditional binary code. This higher order code may also be an analog or analog-like code.



(48) Date of publication of this corrected version:

7 October 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(15) Information about Correction:

see PCT Gazette No. 41/2004 of 7 October 2004, Section II

